

BALANTER, I.I.

First mechanized cornstarch factory in China. Sakh.prom. 33  
no.9:57-58 S '59. (MIRA 13:1)

1. Giprosptirvino.  
(China--Cornstarch)

BALANTER, Il'ya Isaakovich; BERLIN, Rafail Izrailevich; IL'YASHEVSKAYA, Genrietta Isaakovna; KOVALEVSKAYA, A.I., red.; SATAROVA, A.M., tekhn. red.

[Technological planning of breweries and soft-drink plants] Tekhnologicheskoe proektirovanie pivovarennykh zavodov i tekhn. bezalkogol'nykh napitkov. Moskva, Pishchepromizdat, 1962.  
243 p. (MIRA 15:9)

(Brewing industry)

(Soft drinks—Equipment and supplies)

BALANTER, I.I.; RAYKHER, Ya.O.

New standard type factory equipped with automation. Sakh,  
prom. 37 no.5:48-55 My '63. (MIRA 16:6)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy  
spirtovoy i vinodel'cheskoy promyshlennosti.  
(Factories—Design and construction)  
(Starch industry)

TREGUBOV, Nikolay Nikolayevich; BALENTER, Ilya Isaakovich;  
DESHENTSEV, Boris Konstantinovich; GRYAZNOV, Mikhail  
Mikhailovich; KRAVCHENKO, S.F., inzh., retsenzent;  
BUDMAN, H.Ye., inzh., retsenzent; SINEL'NIKOV, I.D.,  
spets. red.; KOVALEVSKAYA, A.I., red.

[Design and planning of the enterprises of the starch  
and molasses industry] Proektirovanie predpriyatii  
krakhnalo-patochnoi promyshlennosti. Moskva, Pishche-  
vaia promyshlennost', 1964. 314 p. (MIRA 18:1)

BALASHOV, A. I.

Cand Tech Sci

Dissertation: "Dynamics of Catenary Treads."

23/6/50

Moscow Automobile Institute.

**SO Vecheryaya Moskva**

Sub: 71

BALANTSEV, A.M., kandidat tekhnicheskikh nauk.

Measuring tensile stresses in the caterpillar tracks of  
tractors. Nauch. trudy NAMI no.3:21-30 '55. (MLRA 9:12)

(Tractors) (Dynamometer) (Strains and stresses)

BALANTSEV, A.M., kandidat tekhnicheskikh nauk.

Mechanical method for the traction force measurement of caterpillar tractors. Avt.trakt.prom. no.4:17-22 Ap '55. (MIRA 8:5)

1. Stalingradskiy mekhanicheskii institut.  
(Tractors)

BALANTSEV, V.V.; MAL'KOVSKIY, A.P.

Conversion of the TsD-3 cutoff machine to a multiple saw cutoff.  
Der.prom. 9 no.10:25-26 0 '60. (MIRA 13:10)  
(Woodworking machinery)



KRIMER, I.L., otv.red.; SOBOLEVA, V.S., otv.red.; SKURYGINA, P.V.,  
P.V., otv.red.; SHURAN, Ye.M., otv.red.; TRET'YAKOVA, L.Ye.,  
otv.red.; BALANTSAYA, I.A., otv.red.; SHAPIRO, Ye.M., otv.red.;  
FEDOSEYEV, V.A., red.; HENEVSKAYA, V.A., red.; SOLOV'YEV, S.N.,  
tekhn.red.

[Cartographic chronicle; organ of the state bibliography of the  
U.S.S.R. for 1951-1953] Kartograficheskaya letopis'; organ  
gosudarstvennoi bibliografii SSSR, 1951-1953. Moskva, Izd-vo  
Vses.knizhnoi palaty, 1954. 162 p. (MIRA 12:7)

1. Vsesoyuznaya knizhnaya palata.  
(Bibliography--Maps)

BALANUTSA, O.M.

Republic-wide Conference of the Scientific Technological  
Society of the Paper and Woodworking Industry. Sum. 1 der.  
prom. no.4:54 O-D '63. (MIRA 17:3)

BALANYI, L.

Some interesting plants of Baja and its vicinity. p. 350.

BOTANIKAI KOZLEMENYEK. (Magyar Biológiai Társaság. Botanikai Szakosztály)  
Budapest, Hungary, Vol. 47, No. 3/4, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959  
UNCL

BALANYI, László

Some interesting plants of Baja and its vicinity. Botan kozl 47  
no.3/4:350 '58.

1. Allami Tanitokepso, Baja.

USSR/Diseases of Farm Animals. Diseases Caused by  
Bacteria and Fungi.

R-2

Abs Jour: Ref Zhur - Biol., No 1, 1959, 2795

Author : Balanyuk, V.

Inst : Not given

Title : Treating Calves Afflicted with Broncho-  
pneumonia

Orig Pub: Zemledeliye i zhivotnovodstvo Moldavi, 1958,  
No 1, 35-37

Abstract: When treating bronchopneumonia, good results are  
obtained with a stimulating therapy (in combina-  
tion with other drugs) in the form of subcutaneous  
injections with tissue preparations according to  
Filatov's method (a 33 percent suspension of re-  
frigerated cattle's testicular tissue suspended  
in a physiological solution). During the initial  
stages of the disease, the injections are given  
once every 2 days as the preparation is injected

Card 1/2

USSR/Diseases of Farm Animals. Diseases Caused by  
Bacteria and Fungi.

R-2

Abs Jour: Ref Zhur - Biol., No 1, 1959, 2795

Abstract: 3-5 times in a dose of 0.08 ml/kg. For subacute forms of the disease, the dosage is increased to 0.1 ml/kg and the number of injections to 5-7. When chronic forms of the disease are dealt with, the preparation is injected daily during the first 10 days of treatment in 0.05 ml/kg doses, followed during the next days by 0.1 ml/kg dose injections every 3 days. In subacute forms of the disease, the sick animals receive at the same time norsulfazole (sulfathiazole) orally 3 times daily, to which, in chronic forms, cardiac preparations (such as camphor oil and caffeine) and seltzer water are added. -- L. S. Gberman

Card 2/2

BALANYUK. V.D., Cand Vet Sci — (diss) "Certain data <sup>from a</sup>  
study of enzootic bronchopneumonia of calves under con-  
ditions of the <sup>southern</sup> ~~South of the~~ Ukraine." Odessa, 1959, 20 pp  
(Min of Agr USSR. Odessa Agr Inst) 200 copies (KL, 34-59, 116)

3

Radial structure of anisotropic prisms of barium sulfate  
Radov, V. and by Radov, V. (USSR) 1977  
The effect of continuous long term washing by  
distilled water on the structure of barium sulfate  
crystals was studied. It was possible to convert  
the crystals to isotropic crystals by long term washing  
with distilled water. The crystals were  
washed in a solution of distilled water and  
the effect of washing on the structure of the  
crystals was studied. The crystals were  
washed in a solution of distilled water and  
the effect of washing on the structure of the  
crystals was studied.

4 M-1



BOYADZHIYEV, I. [Boiadzhiev, I.]; BALABEV, G.

Vibrating layer absorption of carbon dioxide in presence of surface-active agents. Doklady BAN 17 no.10:937-939 '64.

1. Institute of General and Inorganic Chemistry of the Bulgarian Academy of Sciences, Sofia 13. Submitted June 20, 1964.

CP

2

THE NATURE OF WATER OCCLUDED IN SOLID SYSTEMS DEPOSITED FROM AQUEOUS SOLUTION. D. BLAGOV. Ann. chim. Univ. Sofia II, 1964, 58, 273-280 (in German 2A)

(1964). - H<sub>2</sub>O occluded in ppt. of unrefined Na<sub>2</sub>SO<sub>4</sub>, CuSO<sub>4</sub>·H<sub>2</sub>O systems, Al(OH)<sub>3</sub> and Fe(OH)<sub>3</sub>, gel. and pure KCl, NaCl, BaCl<sub>2</sub>, PbCl<sub>2</sub>, KBr and K<sub>2</sub>SO<sub>4</sub> is very similar in properties to H<sub>2</sub>O taken up by hygroscopic Al<sub>2</sub>O<sub>3</sub>, CuO, MnO<sub>2</sub> and WO<sub>3</sub>. H. A. Beatty

ASS-ILA METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES OF

Construction of real crystalline systems. I. Nalazky.  
Ann. soc. Sofia, II. Forulit phys.-math., 1966 2, 32 in  
German 113-36 (in Bulgarian 136-40) (1966).—A brief  
discussion of the basic instability of some crystals under  
certain conditions and arrangements is described showing  
the causes of the inhomogeneity of solid systems. P. 1.

AD 554 METALLURGICAL LITERATURE CLASSIFICATION

AD 554 METALLURGICAL LITERATURE CLASSIFICATION

AD 554 METALLURGICAL LITERATURE CLASSIFICATION

| PROCEDURES AND PROPERTIES INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| <div style="position: absolute; top: 10px; left: 10px; font-size: 2em; font-weight: bold;">CA</div> <div style="position: absolute; top: 10px; right: 10px; font-size: 2em; font-weight: bold;">2</div> <div style="position: absolute; top: 200px; left: 350px;"> <p>General theory of the impurity of solid systems. 11.</p> <p>D. Bakasov. <i>Ann. univ. Syla</i>. 11. <i>Fornal. phys.-math.</i> Livre 3, 26, 233-40 (in German, 347-5) (1930-30); cf. C. A. 23, 2320<sup>2</sup>.—Internal adsorption must be distinguished from internal adsorption, which is adsorption on the inner surface of solid crystal systems. The term "adsorption" as used in the literature is indefinite and in some cases is used where internal adsorption exists. The Winkler system of quant. analysis (C. A. 23, 2353) where pptn. are not ignited, is very limited in scope and accuracy and has no importance in the theory and practice of quant. analysis. The Nergovan and Marjanovic method (C. A. 23, 1907) of pptn. from extremely concd. solns. is decidedly a compensation method. By the new method, in which the disperse colloidal structure of all actual crystal systems is considered, BaSO<sub>4</sub> can be pptd. from H<sub>2</sub>SO<sub>4</sub> (pure or contg. various other ions) or from its salt solns. much more quickly and better than by the older methods.</p> <p style="text-align: right;">(George Ayres)</p> </div> |  |  |  |  |  |  |  |  |  |
| ASB-11.6 METALLURGICAL LITERATURE CLASSIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <span>FROM SYNDICATE</span> <span>FROM BOMBY</span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <span>1930-1931</span> <span>1932-1933</span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |

**CIA-RDP86-00513R000103**



C. A.  
1951

biological  
9/A

The Weimarn law in the case of protein precipitation  
1) Halasz and T. Nikolov (Univ. Sofia, Bulg.). (Summary  
and. *Fachb. med.* 28, 645 & 1944. for German sum-  
mary). The size of the protein particles (I) from alk.  
colloidal solns. (I) of bean and castor bean (II) proteins by  
N NaCl or 30% sulfosalicylic acid (III) varied with the pH.  
of I according to the Weimarn law (cf. C.A. 17, 3438; 19  
3405). The protein solns. were prep. by stirring 20 g.  
ground bean or II with 100 ml. 0.1 N NaOH soln. for 1 hr.  
and filtering the mixt. after it stood 24 hrs. at room temp.  
The protein was pptd. by adding 5 ml. N NaCl or 10 ml.  
of III to 5) ml. of I of various alkalities. Immediately  
after pptn., the mixts. were brought to the same pH by  
diln. and the dispersion was estd. from the rate of sedimen-  
tation of the particles. In some expts. the ppt. was filtered  
through a cloth and weighed while the absorption of the  
filtrate was detd. by the use of a Follin photometer. The  
application of the Weimarn law to protein systems suggests  
that the mechanism of growth of particles of slightly sol.  
inorg. salts and of proteins may be similar (C) Meguerian.

| PROCESSING AND PROPERTY INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |
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| 1ST AND 2ND COPIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |  | 3RD AND 4TH COPIES                |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>Structure of real crystalline systems and initial temperature of the gray illumination. D. Baharev and N. Kuznetsov. Ann. univ. Sofia, 77, Fizika, 1973, 141-142 (in German 1973) (1973). It was experimentally determined that the initial temp. of the gray illumination of a lab.-prepd. crystal system is in close relation to the structure of the conglomerate formed. These temps. are determined on the one hand by the comparatively mobile ions in all crystal systems, and on the other hand through the process of aging, in which case there is liberation of energy.</p> <p>B. Usmanov</p> |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |
| ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>35000 110 0110 10</p> <p>100000 02</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |  |  |  | <p>100000 02</p> <p>100000 02</p> |  |  |  |  |  |  |  |  |  |  |  |  |



CA

2

Structure of the real crystal systems and the problems of microchemistry. U. Balazs (Univ. Sofia, Bulgaria). *Microchim. Acta* 36/37, 314-17 (1961). During the last 20 years U. has worked out a new theory concerning the structure of real crystal systems. The significance of this new theory is discussed with reference to the size of the crystal nucleus, the conditions of stability of the crystal nuclei and their dependence on the dispersed crystal systems, the size of the crystal nucleus, the type of the realization of the equil. between the crystal and its surroundings, and the complicated kind and manner of the contamination of a free elementary crystal or the growth conglomerate. The relation between habit and contamination of a crystal, on one hand, and the conditions surrounding its origin, on the other hand, can be best studied in the future in the light of this new theory. W. T. Hall

1951

PAIAROV, D.

"Baking Crystal Powder at Temperature 5." P.3 (ODISENIK, KHEMIA, Vol. 47, 1952, Sofiya.)

East European / Vol. 3, No. 3 1954  
SO: Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

DALABEV, D.

Dispersed structure of real crystal systems and its thermodynamic basis. VI. D. Dalabev. *Annalen der Naturforsch. Fachber. phys.-math.* 43, 197-208 (1946-1947). A criticism is presented of the previously proposed mechanism of the attainment of equil. between a crystal and its surroundings. These mechanisms consider the energy of the crystal lattice and the no. of mols. striking the crystal, but neglect the fact that the speed of the building and decay of the different parts of a crystal such as flat surfaces and edges is different. The thermodynamic basis of the dispersed structures of real crystal systems is presented in detail. Clyde McKinley

DALAREV, D.

"The Dispersion of Crystal Systems and The Temperature of Their Polymorphic Transformation." p.27 (GODISHNIK, KHIMIYA, Vol. 47, 1952, Sofiya.)

SO: Monthly List of East European / Vol. 3, No. 3  
Russian Accessions, Library of Congress, March <sup>1954</sup> ~~1953~~, Uncl.

BALANEV, D.

"Construction of True Crystal Systems and Problems of Microchemistry." p.31  
(GODISHNIK, KHIMIYA, Vol. 47, 1952, Sofiya.)

SO: Monthly List of East European / Vol. 3, No. 3  
Russian Accessions, Library of Congress, March <sup>1954</sup>~~1953~~, Uncl.

BALAREV, D.

"Genetic Connection Between Various Types of Microhomogeneous Crystal Systems of Two or More Matters." p.53 (GODISHNIK, KHMILIA, Vol. 47, 1952, Sofiya.)

SO: Monthly List of <sup>East European</sup> Russian Accessions, Vol. 3, No. 3, Library of Congress, March <sup>1954</sup> ~~1953~~, Uncl.

[illegible]





445

AUTHOR: Balarev, Khr.

TITLE: Certain Properties of Supersaturated  $\text{Na}_2\text{SO}_4$  Solutions and Their Crystal Hydrates (Nekotorye svoystva peresyshchennykh rastvorov  $\text{Na}_2\text{SO}_4$  i yego kristallogidratov)

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 34-37 (U.S.S.R.)

ABSTRACT: The problem of spontaneous crystallization of supersaturated solutions, (especially  $\text{Na}_2\text{SO}_4$  solutions) and the rate of the spontaneous process were investigated. Each supersaturated solution was found to have a rate of spontaneous crystallization measured by the number of spontaneously appearing nuclei per unit of volume of the solution per unit of time at a given supersaturation. Experiments showed that supersaturated  $\text{Na}_2\text{SO}_4$  solutions will remain for many months in cups covered with watch or clock glasses without the deposition of  $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$  crystals which indicates a low rate of spontaneous crystallization of this crystal hydrate. The product obtained in all cases was  $\text{Na}_2\text{SO}_4 \cdot 7\text{H}_2\text{O}$ , which is metastable and has higher solubility at given temperature. The rate of spontaneous crystallization of  $\text{Na}_2\text{SO}_4 \cdot 7\text{H}_2\text{O}$  (even though it is greater than the rate of crystallization of  $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ ) is still low in

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Certain Properties of Supersaturated  $\text{Na}_2\text{SO}_4$  Solutions  
and Their Crystal Hydrates

comparison and increases only during a rapid drop in temperature. Not all supersaturated solutions crystallize by rubbing with a glass stick against the walls of the vessel. There is a positive relation between the rate of spontaneous crystallization and the rubbing effect. When crystals of any crystal hydrate are subjected to rubbing then the aging, i. e., derivation of new phase, begins from the places affected. The assumption that affected  $\text{Na}_2\text{SO}_4 \cdot 7\text{H}_2\text{O}$  crystals will be converted spontaneously into two new crystal phases according to a certain equation has not been verified since this conversion has not taken place. Many interesting data in this respect can be found in the V. I. Danilov report of 1948 (4). Danilov investigated aqueous solutions of salts fusions of organic compounds and metals. Aging, i. e., change in the properties of a rapidly chilled solution, depends on the rate of formation of various quasicrystalline groupings, thus indicating the formation of a crystalline nucleus. One table and 1 drawing. There are 4 references, of which 2 are Slavic.

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445

Certain Properties of Supersaturated  $\text{Na}_2\text{SO}_4$  Solutions  
and Their Crystal Hydrates

ASSOCIATION: Institute of Inorganic Chemistry, Sofia (Institut Neorganicheskiy  
Khimii, Sofiya)

PRESENTED BY:

SUBMITTED: February 27, 1956

AVAILABLE:

Card 3/3

BALAREV, KAR.

(2)

1. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
2. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
3. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
4. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
5. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
6. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
7. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
8. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
9. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
10. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.
11. On the Question of the Role of the Bulgarian State in the Development of the Bulgarian Economy. By K. BALAREV. In: Trudy na 10. 1961. No. 1. Pp. 1-10.

MIREV, D.; BALAREW, Chr. [Balarev, Khr.]; BOJADZIEV, L. [Boiadzhiev, L.];  
LAMBIEV, D.

Absorbtion in vibrating layer of nitric oxide solution of  
carbonic acid. Doklady BAN 14 no.4:345-348 '61.

1. Vorgelegt von Akademiemitglied D. Ivanoff [D. Ivanov].

21153

LO194  
S/061762/000/013/020/054  
B158/B144

AUTHORS: I. Mirev, D., Boyadzhiev, L., Balarev, Khr.  
II. Mirev, D., Balarev, Khr., Boyadzhiev, L., Lambiyev, D.

TITLE: Absorption in a vibrating layer. I. Absorption of carbon dioxide in solutions of potassium hydroxide and potash. II. Absorption of nitrogen oxides by solutions of sodium hydroxide and sodium carbonate.

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 393-394, abstract 13K42 (Izv. In-te obshcha i neorgan. khimfya i organ. khimiya, v. 8, 1961, 47-60; 83-101)

TEXT: I. Absorption in a "foam system" was carried out in a column 300 mm high and 27 mm in diameter of 2 N KOH and  $K_2CO_3$  at a  $CO_2$  content in the gaseous mixture of 15, 35 and 40% and at a temperature of  $20^\circ C$ . The effect of vibrations, carbonization of the solutions and of the velocity of the gaseous mixture on the amount of foam formed and the degree of absorption of the  $CO_2$  was determined. The dependence of the

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2

Absorption in a vibrating layer. I. ... 8/081/62/000/013/020/054  
B158/B144

rate of  $\text{CO}_2$  absorption on the  $\text{CO}_2$  concentration in the gaseous mixture was established. With 15%  $\text{CO}_2$  in the gas mixture and using a sorptive solution containing 60%  $\text{K}_2\text{CO}_3$  and 40%  $\text{KHCO}_3$ , an absorption coefficient  $K_g$  of  $1400 \text{ kg/m}^3 \cdot \text{hr} \cdot \text{atm.}$  was obtained at a gas mixture feed rate of 60 litres/hr (volume of absorbent: 25 ml).

II. In the absorption of nitrogen oxides in a vibrating layer, the following points were determined: the effect of amplitude of the vibrations, degree of oxidation of the  $\text{NO}$  to  $\text{NO}_2$ , concentration of the nitrogen oxides in the original gas, volume flow rate of the gas mixture, concentration of the absorbent and of the temperature on the degree of absorption of the nitrogen oxides. An extremely high degree of absorption of the nitrogen oxides and completely satisfactory results were obtained at a degree of oxidation of  $\text{NO}$  to  $\text{NO}_2$  of  $\sim 50\%$ . At a 40-50% degree of oxidation, absorption was determined from the content of free  $\text{O}_2$  in the gas phase. The content of nitrogen oxides in the waste gases does not

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Absorption in a vibrating layer. I. ... S/081/62/000/013/020/054  
B158/B144  
depend on the initial concentration of these oxides (at a content of  
0.55-1.8% calculated on NO) at a volume flow rate of 800 hrs<sup>-1</sup>. The  
possibility of obtaining very high degrees of absorption of the  
components from the gas mixture is proved, providing the rate of the  
absorption process is limited by the diffusion stage. 21 references.  
[Abstracter's note: Complete translation.]

Card 3/3



MIREV, Dimitur, prof. d-r [deceased]; ELENKOV, D.; BALAREV, Khr.

Absorption rate of pure gases. Izv Inst khim BAN no.8:61-72  
'61.

Influence of some surface-active substances on the absorption  
rate. 73-81

MIREV, Dimitur, prof. d-r [deceased]; BALAREV, Khr.; BOIADZHIEV, L.;  
LAMBIEV, D.

Absorption in a vibrating layer. Pt. 2. Izv Inst khim BAN no.8:  
83-101 '61.

MIREV, D.; ELENKOV, D.; BALAREV, C.

Effect of certain surface active agents on the rate of absorption.  
1. Chemistry. Doklady BAN 14 no.4:349-352 '61.

1. Submitted by Academician D. Ivanov.

BALAREV, C.

- 26
1. "Distribution of Tangential Planes to Surfaces of the Congruence of Straight Lines in the Hyperbolic Space." A. BALAREV, pp 235-237.
  2. "Measuring the Activation Energy of Absorption Levels in Lead Sulfide." M. BALAREV and L. STANISLAV, pp 239-241 (English Summary).
  3. "A New Precise Differential Manometer for Laboratory Purposes." L. BALAREV and L. STANISLAV, pp 243-244.
  4. "Microquantitative Determination of Chlorine and Iodine Ions." M. BALAREV and L. STANISLAV, pp 247-250.
  5. "Comparative Amino Acid Content of the Fats of Some Pet Stones." L. BALAREV, pp 251-254.
  6. "On the Method of Removing Sulfur from The Kreshtovsk Limestone Ore." L. BALAREV, pp 255-257.
  7. "Absorption of Nitrogen Oxides in the Vibrating Phase of Sodium Hydroxide Solutions." L. BALAREV, pp 259-262.
  8. "On the Rate of Absorption of Pure Gases." L. BALAREV, pp 263-266.
  9. "Effect of Some Inorganic Additives on the Reduction of Copper Oxide by Carbon Monoxide at Low Temperatures." L. BALAREV, pp 267-272.
  10. "Separate from the Radio Mine, Panaghiur Basin." L. BALAREV, pp 273-274 (English Summary).
  11. "Aluminum Sulphate from Svetlitsa, Ardin Basin." L. BALAREV, pp 275-278 (English Summary).
  12. "Regarding the Experimental Variability of Bactericidal Cells." L. BALAREV, pp 279-281.
  13. "Studies on the Formation of Capsule by Certain Strains of Bacillus anthracis in vitro." L. BALAREV, pp 283-285.
  14. "Antibiotics and the Sclerulo-Endothelial System: Fixation Activity in Rice Treated with Oxidant Iron Compounds." M. BALAREV, O. STANISLAV and L. STANISLAV, pp 287-290.
  15. "Electron Microscopic Study of Lungs of Males." L. BALAREV, pp 291-294.
  16. "Human Leptocystidosis Due to Leptocystis Saccobag in Bulgaria." L. BALAREV, pp 295-298.

ELENKOV, D.; BALAREV, C. [Balarev, Khr.].

Effect of certain surface active agents of the sodium alkylsulphate type on the rate of absorption. Doklady BAN 16 no.2:153-156 '63.

1. Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia.

BALAREW, C. [Balarew, Khr.]

Surface velocity of liquid films in the presence of surface active agents. Doklady BAN 16 no.2:157-160 '63.

1. Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia. Submitted by Academician D. Ivanov.

BALANCE

26

1. Distribution of Tangential Planes to Surfaces of the Confluence of Straight Lines in the Hyperbolic Space. A. YANOV, pp 235-237.
2. Measuring the Activation Energy of Adsorption Levels in Lead Sulfide. IV. RAY and L. ALLEN, pp 238-242 (English Summary).
3. A New Precise Differential Manometer for Laboratory Purposes. L. SHIMANOV and L. SHIMANOV, pp 243-246.
4. Microquantitative Determination of Chlorine and Iodine Ions. M. RAVICH and K. IGOR, pp 247-250.
5. Comparative Amino Acid Content of the Meats of Some Fruit Stones. S.I. YANOV, pp 251-254.
6. Some Method of Removing Sulfur from The Kresnovodskite Ore. S. YANOV, pp 255-257.
7. Absorption of Nitrogen Oxides in the Vibrating Phase of Sodium Hydroxide Solutions. Part II. D. YANOV, Ch. YANOV, L. SHIMANOV and D. YANOV, pp 258-262.
8. On the Rate of Absorption of Pure Gases. D. YANOV, D. YANOV and C. YANOV (28 English), pp 263-266.
9. Effect of Some Inorganic Additives on the Reduction of Copper Oxide by Carbon Dioxide at Low Temperatures. M.S. KURBANOV, pp 267-272.
10. Bacteria from the Baku Mine. P. YANOV, pp 273-274 (English Summary).
11. Aluminum Saponite from Pechuka, Arden Basin. T. YANOV, pp 275-278 (English Summary).
12. Measuring the Experimental Variability of Escherichia coli. S. YANOV, pp 279-281.
13. Studies on the Formation of Capsule by Certain Strains of Bacillus anthracis in vitro. S. YANOV, pp 282-285.
14. Anticancer and the Anticancer-Induced System Fixation Activity in Pice Treated with Oxidized Iron Saponite. M. YANOV, G. YANOV and D. YANOV, pp 287-290.
15. Electron Microscopic Study of Lungs of Males. S. YANOV, pp 291-294.
16. Human Leptospirosis Due to Leptospira Seutochima in Bulgaria. I. YANOV, pp 295-298.

Library, 1-2

②

2

Agglomeration of crystal powders during heating: V.  
 D. Salary. *Annales fac. sci. phys. et math. (Grenob.)*,  
 tome 47, 3-22 (1952) (German summary). The effect of  
 temp. on the agglomeration of the following mixes. of equal  
 parts of cryst. powders was studied:  $PbSO_4$  with  $KCl$ ,  
 $Na_2SO_4$ ,  $PbBr_2$ , and  $PbCl_2$ ;  $K_2CO_3$  with  $KCl$ ,  $PbCl_2$ , and  
 $PbBr_2$ ;  $KClO_4$  with  $Fe_2O_3$ ,  $CaO$ ,  $MgO$ ,  $LiCl$ , and  $Al_2O_3$ ;  
 $ZnO$  with  $CaO$ ; different varieties of red, and quinone,  
 phenolphthalein, fluorescein, tetrabenzophthaleic acid, phos-  
 phore, and sugar. The results show that in the temp. region  
 of internal diffusion the surface of the crystal is softened.  
 Since the behavior of the mixes does not represent any of  
 the constituent compds., it is suggested that a eutectic  
 temp. for each mixt. exists. Org. crystals behaved in the  
 manner of heteropolar powders. G. Meguerian.

*[Handwritten signature]* 12/16/01



24(2), (5)

AUTHORS:

Petrashen', M. I., Gutman, T. L., Balarin, M. SOV/54-58-4-3/18

TITLE:

Model of a Central Ion in the Theory of Ionic Crystals and Some of Its Results (Model' tsentral'nogo iona v teorii ionnykh kristallov i nekotoryye yeye rezul'taty)

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1958, Nr 4, pp 28-33 (USSR)

ABSTRACT:

In this paper the authors give an approximate calculation of the energy of a central ion located in a lattice point of a cubic crystal lattice. For this purpose an ion in a crystal phosphorus is investigated, which corresponds to Seitz' model of crystal phosphorus (Ref 3). The general expression of the energy of a central ion consists of the sum of "internal" energy (energy which is described only by its wave function) and energy of the interaction between the electrons of the central ion and the crystal field  $W = W_0 + W_1$ . In the first approximation the crystal field is regarded as a field with lattice-like arranged point charges.  $W_1$  contains Mandelung's constant and depends on the nuclear charge and number of electrons of the central ion

Card 1/2

Model of a Central Ion in the Theory of Ionic Crystals and Some of Its Results SOV/54-58-4-3/18

and the lattice constant. The assumption of a point lattice is justified according to the experimental papers listed in references 5 and 6. In the second approximation the finite extension (and the electron distribution) of the surrounding ions is taken into account. In this case  $W_1$  consists of  $W_1'$  and  $W_1''$  of the electrostatic and exchange interaction.  $W_1'$  is expressed in the preceding form with the additional term  $\Delta W_1'$ , which takes into account the spatial extension of a neighboring ion.  $\Delta W_1'$  is determined for an ion with its six next neighbors. The determination of an approximate expression for  $W_1''$  proved to be very difficult. Further, the authors state that the exchange correction exercises less influence upon the value of the difference of energy levels than does the electrostatic correction upon the finite extension of ions. If the central ion under investigation is an activator, another term  $W_8$  must be added to the aforesaid equation (1), which takes into account that the one-electron function is not rectangular due to the introduction of the activator. There are 9 references, 6 of which are Soviet.

Card 2/2

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S/020/62/147/002/009/021  
B184/B102

AUTHORS: Balarin, M., Molchanov, V. A., Tel'kovskiy, V. G.

TITLE: Anisotropy of the cathode sputtering coefficient and the focused collisions in monocrystals.

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 2, 1962, 331-333

TEXT: The angular dependence and the anisotropy of the sputtering coefficient was investigated under the same experimental conditions as used by V. A. Molchanov and V. G. Tel'kovskiy (DAN, 136, 801, 1961) by rotating zinc monocrystals about their  $\langle 210 \rangle$  axis. The  $\langle 100 \rangle$  directions are the focusing directions in the basic plane. For the other directions, especially the  $\langle 210 \rangle$  direction, indirect focusing is possible. A comparison of the two given curves shows that the mean sputtering coefficient is directly proportional to the distance of corresponding atomic layers. The anisotropy of the angular distribution is a function of focused collisions in the crystal. The position of the extrema depends on the focusing direction. There are 3 figures.

Card 1/2

Anisotropy of the cathode ...

S/020/62/147/002/009/021  
B184/B102

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki  
Moskovskogo gosudarstvennogo universiteta im.  
M. V. Lomonosova (Scientific Research Institute of Nuclear  
Physics of Moscow State University imeni M. V. Lomonosov)

PRESENTED: June 19, 1962, by L. A. Artsimovich, Academician

SUBMITTED: June 11, 1962

Card 2/2

KOZMA, Laszlo, a muszaki tudomanyok doktora; BALAS, Arpad; GAL, Jozsef

Problems occurring at the introduction of telephone systems of the crossbar type: also, remarks by A.Balas, and J.Gal. Muzsaki kozl  
MTA 26 no.1/4:151-163 '60. (EEAI 9:10)

1. Bydapesti Muszaki Egyetem, Vezetekes Hiradastechnikai Tanszek  
(Telephone)

BALAS, A.

Oscillometric studies of injection treatment of varicose veins; role of venous and reflectory arterial spasm in development of subsequent complications. Magyar Sebészet 3 no.3:221-229 1950. (CIML 20:1)

1. Of the First Surgical Clinic (Director -- Dr. Gyula Sebesteny, University Professor Lecturer), Budapest University.

BALAS, A.; GORGO, P.; RANKY, L.; STEFANICS, J.

Significance of phlebography in diagnosis and surgery of  
venous diseases of the lower extremity. *Magy. radiol.* 3  
no.2:49-56 1951. (CIML 20:11)

1. Doctors. 2. First Surgical Clinic (Director -- Prof.  
Dr. Gyula Sebesteny), Lorand Eotvos Medical University,  
Budapest.

BALAS, A.

Flexible illuminated sound. Orv. hetil., Budap. 92 no.36:1175-  
1176 9 Sept 1951. (OLML 21:2)

1. Doctor. 2. First Surgical Clinic, Budapest Medical University.



RALAS, A.

The present standing of the true varicose problem. Orv. hetil. 94 no.24:  
645-651 14 June 1953. (GIML 25:1)

1. Doctor. 2. First Surgical Clinic (Director -- Prof. Dr. Gyula  
Sebesteny), Budapest Medical University.

EXCERPTA MEDICA Sec 15 Vol 9/7 Chest Dis. July 56

1497. BALÁS A. \*A tüdőresectió utókezelése és szövődésményei. Postoperative care and complications of lung resections MAG. SEHESZET 1955, 8/1 (13-22) Tables 1

In the postoperative period stress is laid on the compensation of blood loss, the condition of heart and vessels, compensation for loss of vitamins and proteins, and continuous oxygen administration. Attention is paid to the so-called wet lung due to the operation trauma, and the occasional subsequent atelectasis. Respiratory gymnastics may be of much help in both the pre- and postoperative stage. Tissue gymnastics, and analgetic drugs, will promote spontaneous expectoration. After pneumonectomy, the pleural cavity is not drained. Instead of this, the sutured ex-date is removed on the 1st, 2nd, 3rd, 5th, 7th, and 12th day through puncture at the axillary line. Careful management of the stump and early expansion are indispensable factors of restoration after lobectomy and resection of a segment, therefore 2 Pezzer catheters are inserted in the residual space and continuous aspiration under a pressure of 50 to 150 cm. water is applied for 3 to 5 days. Complications are invariably due to a 'dead space' or improper management of the stump. The expansion and the condition of the thorax should be frequently checked by roentgen fluoroscopy and films. Incapsulated empyema exudate, or total empyema, if the stump has been preserved, treated by tappings. In cases of bronchial fistula drainage and continuous aspiration are applied. Early fistula formation gives rise to re-thoracotomy and secondary suturing, whilst in late fistulae only drainage should be carried out and neoplasty may be necessary. If atelectasis combined with incapacity of expectoration, bronchoscopic aspiration, antibiotic and oxygen treatment may be needed. Thoracotomy was performed in the course of 7 yr. in 788 cases. Sixty-eight patients (8.6%) died. Forty-four kinds of complications were observed, most frequently atelectasis and bronchial fistulae.

Author (A.)

BIKFALVI, Andras, dr.; ERDELYI, Mihaly, dr.; BALAS, Attila, dr.

Obliteration syndrome of vena cava superior caused by chronic fibrous  
mediastinitis. Magyar. sebesset 8 no.1:23-32 Feb 55.

(VENAE CAVAE, dis.

obstruct. caused by chronic fibrous mediastinitis)  
(MEDIASTITIS

fibrous, causing obstruct. of vena cava superior)

POTOCKI, Aleksy; BALAS, Adolf; DUDEK, Bernard

Colorimetric determination of the specific stability of  
polyvinyl chloride. Polimery twora wielk 8 no.1:16-20  
Ja '63.

1. Katedra Technologii Chemicznej, Zaklad Technologii  
Kauczukow i Gumy, Politechnika, Gdansk.

BALAS, Atila, dr.; BIKFALVI, Andras, dr.

Clinical d. a on the so-called intralobar sequestration. Magyar. sebeszet 8 no.145-208, 159-169 June 55.

1. A Budapesti Orvostudományi Egyetem II. sz. Sebészeti Klinikájának közleménye. Igazgató: Sebestyén Gyula dr. egyet. tanár.

(LUNGS, abnormalities,  
intralobar sequestration, clin. aspects)

(ABNORMALITIES,  
lungs, intralobar sequestration, clin. aspects)

BALAS A. I. On Soc. 9 Vol. 11/7 Surgery July 1957

3617. BALAS A. I. Chir. Klin., Univ. Budapest. Mediastinum commune, hypoplasia pulmonis. Mediastinum commune, pulmonary hypoplasia THORAXCHIRURGIE (Stuttgart) 1956, 4/3 (254-260) illus. 9  
A description is given of 2 cases of left pulmonary hypoplasia in female patients. The first patient also showed mediastinum commune. Pulmonary hypoplasia is most often diagnosed in children. The first year of life constitutes the critical period. If the anomaly is compatible with life, these children will frequently suffer from bronchopneumonic affections and retardation of development. Asymmetry of the thorax is often observed. Also, there are frequently vascular anomalies. Hypoplasia of the bronchus is bronchographically characterized by tapering off of the bronchi below the stenosis and by the fact that uneven fillings are connected with abnormally narrow communications.  
Kooreman - Rotterdam

BALAS, Attila, dr.

Data on the clinical picture of hypoplasia pulmonis. Tuberk.  
kerdesei 9 no.5:220-223 Oct 56.

1. A Budapesti Orvostudományi Egyetem I. sz. Sebészeti  
Klinikájának (igazgató: Sebestényi, Gyula, dr. egyetemi tanár)  
közleménye.

(LUNGS, abnorm.

hypoplasia, left-sided, diag. & surg. (Hun))

ANNA MEDICA Sec 15 Vol. 11/2 - Chest Dis. Feb 56

281. PULMONARY RESECTIONS IN CHILDREN UNDER LOCAL ANAESTHESIA, AND UNDER LOCAL ANAESTHESIA COMBINED WITH ARTIFICIAL HIBERNATION. Lungenresektionen bei Kindern in Lokalanästhesie, ferner in Lokalanästhesie und medikamentöser Hibernation. Balázs A. II. Chir. Klin., Budapest Univ., Budapest. ZBL. CHIR. 1957, 82/13 (513-521) Tabica 5 illus. 6

Local anaesthesia is not compared with intratracheal anaesthesia. It is only pointed out that in suitable cases good results without risk can also be obtained in children. Under the age of 10 yr., 100 to 150 ml., and under the age of 16 yr. 200 to 250 ml. of a 0.5% procaine solution is applied sparingly, using the same technique as in adults. As a basic anaesthesia, 0.25 to 0.5 ampoule 'domatrin' (dopon + novatropin) is administered. During 8 yr., thoracotomies were carried out in 87 children; in 10 of these, the operation could not be finished under local anaesthesia. Children younger than 6 yr. are less suitable for local anaesthesia. The advantages of local anaesthesia are clear from the postoperative course and the complications, and postoperative treatment is easier to carry out. In 7 children, local anaesthesia was combined with artificial hibernation (50 mg. phenergan + 50 mg. largactil + 50 mg. dolantin + 44 ml. Ringer's solution). It was well tolerated by children and advantages were observed in wet cases, in decortication and in operations giving rise to shock.

(IX, 15)



BALAS, Attila, Dr.

Treatment of respiratory insufficiency after lung surgery by tracheotomy  
in child. Magy. sebesszet 12 no.1:32-38 Mar 59.

1. Kovarosi Tanacs V.B. Balassa Janos korhaza (Igazgato: Dimitrov-  
Szokodi Daniel dr. az orvostudomanok kandidatusa) I. Sebesszeti Osztal-  
yanak kozlenseye (Forvos: Drexler Miklos dr.).

(PNEUMONECTOMY, compl.

postop. resp. insuff. in child, ther., tracheotomy (Hun))

(TRACHEA, surg.

tracheotomy in resp. insuff. after pneumonectomy in  
child (Hun))

BALAS, Attila, dr.

Contralateral pneumothorax following pneumonectomy. Tuberkulosis 14  
no.12:358-360 D '61.

1. Budapest VIII Balassa Janos Korhas (Igasgato-foorvos: Dimitrov-  
Szokodi Daniel dr. az orvostudomanyok kandidatusa) I Sebesseti Osztaly  
(foorvos: Drexler Miklos dr.) kozlemenye.

(PNEUMOTHORAX ARTIFICIAL) (PNEUMONECTOMY)

BALAS, Attila, dr.; KALMAR, Maria, dr.

Bronchial cyst connected with the diaphragm. Tuberkulozis 15 no.1:  
12-14 Ja '62.

1. Budapest VIII, Balassa Janos Korhaz (igazgato-foorvos: Dimitrov-  
Szokodi Daniel dr., az orvostudomanyok kandidatusa) I. Sebesseti  
osztaly (foorvos: Drexler Miklos dr.) kozlemenye.

(BRONCHI dis) (DIAPHRAGM dis) (CYSTS case reports)

NYIREDY, Geza, dr.; BALAS, Attila, dr.

Diffuse mesothelioma of the pleura. Tuberkulosis 15 no.1:22-26 Ja '62.

1. A Budapesti Orvostudományi Egyetem Tudományegyetemi Klinikájának  
(Igazgató: Kovács Ferenc dr. egyetemi tanár, az orvostudományok doktora)  
és a VIII kerületi Tanácsa Balassa János Kórház (Igazgató: Székely-  
Dimitrov Dániel dr. kandidátus) I Sebészeti Osztályának) Főorvos:  
Drexler Miklós dr.) közleménye.

(PLEURA neopl) (MESOTHELIOMA case reports)

BALAS, Attila, dr.

Contributions to the clinical aspects and surgery of bronchial  
cysts of the mediastinum. Magy. sebess. 15 no.6:337-347 D '62.

1. A Bp. Fov. VIII. Tanács V.B. Balassa János Korház (Igazgató főorvos;  
Dimitrov-Székodi Daniel dr. az orvostudományok kandidátusa) I. sz.  
Sebészeti Osztály (Főorvos: Drexler Miklós dr.) közleménye.  
(CYSTS) (BRONCHIAL DISEASES) (MEDIASTINAL CYST)  
(ESOPHAGEAL CYST)

BALAS, Attila, dr.

Contributions to the surgery of mediastinal tracheal cysts associated with congenital cartilage deficiency (cysta paratrachealis seu trachealis).  
Tuberkulozis 15 no-11:321-326 N '62.

1. A Budapesti VIII. ker. Tanács V.B. Balassa János Korház (igazgató főorvos: Dimitrov-Szokodi Daniel dr. az orvostudományok kandidátusa)  
I. sz. Sebészeti Osztály (főorvos: Draxler Miklós dr.) közleménye.  
(MEDIASTINAL CYST) (TRACHEA) (CARTILAGE)

BALAS, Attila, dr.

Data on clinical and surgical aspects of bronchial mediastinal cysts  
(cystae bronchiales mediastini). II. Magy. sebess. 16 no.1:13-26  
Mr '63.

1. A Bp. Fov. VIII. Tanacs V. B. Balassa Janos Korhaz (Igazgato foorvos:  
Dimitrov-Szokodi Daniel dr. az orvostudomanyok kandidatusa) I. sz.  
Sebesseti Osszaly (Foorvos: Draxler Miklos dr.) kozlemenye.  
(MEDIASTINAL CYST) (BRONCHIAL DISEASES) (TRACHEA)  
(ESOPHAGEAL CYST) (SURGERY, OPERATIVE)

HORANYI, Janos, dr.; BALAS, Atilla, dr

On an accessory lobe of the lung. (Bronchioloma cysticum extra-pulmonale). Tuberkulózis 17 no.5:136-138 My '64.

1. A Budapesti Orvostudományi Egyetem 2 sebészeti klinika (igazgató: Rubanyi Pál dr. egyetemi tanár) és a Balassa János Kórház (igazgató: Szokodi-Demitrow Daniel dr.) 1 sebészeti osztályának (orvos: Drexler Miklós dr.) közleménye.



HUNGARY

BALAS, Dr. Attila; DREXLER, Miklos Dr; RATKAI, Dr Istvan; [Affiliation not given].

"Injury to the Diaphragm and Resulting Incarceration"

Budapest, Magyar Sebeszet, Vol 19, No 5, Oct 66; pp 282-288.

Abstract: Authors discuss their experiences acquired in connection with the surgical treatment of six diaphragm injuries or incarcerations of different etiology. Although the rupture of the diaphragm requires the intervention of considerable force, such a rupture may be brought about in old age also by a relatively small force. A special group of the so-called injuries is made up of damages in which the diaphragm is destroyed as a result of pus formation, or is injured during surgical intervention. The best treatment of the syndrome is offered by surgery, while thoracic penetration offers the best method of exploring the condition. 26 References, of which 10 Hungarian rest Western.

BALAS, B. 1950

(Kozlemeny az Orszagos Verellato Szolgalat Kozponti Verellato es Kutato Intezetebol.)

"Investigations into the Origin of the Fever-Producing Action of Parenterally Injected Milk."

Orv. Hetil. 1950 91/10(299-301)

Abst: Exc. Med. 11, Vol. 1V, No. 2, p. 175

DIACONU, Constantin; BALAS, Doina; BURCIU, Olga; STROIA, Elena

Results of the studies on the temperature of the rivers in Rumania.  
Studii hidrol 3:25-52 '62.

BALAZS, D. [Balas, D] (Bukharest)

Plant protection in Rumania. Zashch.rast. ot vred. i bol. 9  
no.11:48-49 '64.

(MIRA 18:2)

PALAT, E.

Life work of Jan Koula, professor of architecture; remarks on the  
occasion of his hundredth birthday. p. 269  
CESKOSLOVENKA ETHNOGRAFIE. Praha  
Vol. 3, no. 3, 1955

SOURCE: Monthly List of East European Accessions (EEAL), LC, Vol. 5,  
No. 3, March 1956

BALAS, E.

Research into rural settlements and buildings in southeastern Bohemia. p.184.  
(CESKOSLOVENSKA ETHNOGRAFIE, Vol. 5, no. 2, 1957, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

BALAS, E.; HAMMER, L.

On the problem of transportation. I. The transportation problem with interchangeable centers. Studii cerc mat 11 no.2:439-450 '60.

(Transportation) (Linear programming)

BALAS, E.; IVANESCU, P.

Transportation problems with variable data. Rev math pures  
6 no.4:713-734 '61.



BALAS, E.; IVANESCU, P.

Transportation problem. II. Transportation problems with parameters.  
III. Transportation problem with variable centers. Studii cer mat  
12 no.2:413-427 '61.

S/044/62/000/007/080/100  
0111/C333

AUTHORS: Balas, E., Hammer, L. P.

TITLE: On transportation problems. 4. On a method of solving the transportation problem

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 61, abstract 7V289. ("Comun. Acad. RPR", 1961, 11, no. 9, 1047-1049)

TEXT: This is a continuation of the series of articles by the authors on the transportation problem (for the first article of. Rzh. Mat., 1962, 2V452; the second and third articles are being printed). The method of solution suggested is based on the interpretation of the transportation problem as a parameter problem of linear programming. The optimal solution of the original problem are obtained for certain parameter values. A short example is given.

[Abstracter's note: Complete translation.]

Card 1/1

BALAS, E.

Relations of domination in the problems of linear programming.  
Studi cerc mat 13 no.3:511-519 '62.

BALAS, E.; IVANESCU, P.

On the transportation problem. Pt.6. Comunicarile AR 13 no.3:  
249-251 Mr '63.

LA 11-40, R 30

154

Comparative tests with contact insecticides (Gy.  
Balazs, Bull. Faculty Hort. Viticult. Univ. Agr. Sci.  
Budapest 12, 92-94 (1948). Insecticide preps. "Tetoxol"  
and "Kertinol" contg. a mixt. of bis(trichlorophenyl)-  
di-chloropropane and bis(trichlorophenyl)-  
di-chloroacetate, in Hungary were compared with Gesarol contg.  
DDT and New-Novenda, contg. dinitro-o-cresol. "Tetoxol"  
in 0.5 and 1.0% aq. soln. killed 91 and 8% of  
*Brachycolus brassicae*. The agent "Kertinol" had 97%  
effect in expts. with *Aphis cereale* living on rye. Both  
agents seemed to produce quicker effects than DDT and  
dinitro-o-cresol. Also, an agent named "Axi-Tox"  
(heptachloromethylcyclobutane deriv.) seemed to be  
effective in 1% soln. against larvae of *Aphis spika*.  
Istvan Fenyvesi

STOYEV, Stoyu [Stoey, Stoiu]; BALASH, Ion [Balas, Ion]; GECHKO, Iozef [Hecko, Jozef]; VARKONI, Laslo [Varkoni, Laszlo]

Friendship never grows old. Radio no.8:6-7 Ag '62. (MIRA 15:8)

1. Predsedatel' TSentral'nogo komiteta Dobrovol'nogo obshchestva sodeystviya oborone Narodnoy Respubliki Bolgarii (for Stoyev).
2. Zamestitel' predsedatelya TSentral'nogo soveta Soyuzafizkul'tury i sporta Rumynskoy Narodnoy Respubliki (for Balash).
3. Predsedatel' TSentral'nogo komiteta Soyuzasodeystviya armii Chekhoslovatskoy Sotsialisticheskoy Respubliki (for Gechko).
4. Zamestitel' predsedatelya Oboronno-sportivnogo soyuzaf Vengerskoy Narodnoy Respubliki (for Varkoni).

(Radio operators)

BALAS, J.

Approximative solution of oblique plates.

P. 87, (Slovenska akademie vied. Ustav stavebnictva architektury. PRACE, 1954  
(Published) 1956, Bratislava. Czechoslovakia)

Monthly Index of East European Accessions (FFAI) LC. Vol. 7, no. 2,  
February 1958

BALAS, J.

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